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FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/28/2001	Heikki Heikkila	1427.0120000/MAC/THN	5971	
26111 7590 01/27/2005 STERNE, KESSLER, GOLDSTEIN & FOX PLLC			EXAMINER	
			MCINTOSH III, TRAVISS C	
1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005		ART UNIT	PAPER NUMBER	
		1623		
	09/28/2001 01/27/2005 LER, GOLDSTEIN & AVENUE, N.W.	09/28/2001 Heikki Heikkila 01/27/2005 LER, GOLDSTEIN & FOX PLLC AVENUE, N.W.	09/28/2001 Heikki Heikkila 1427.0120000/MAC/THN 01/27/2005 EXAMI LER, GOLDSTEIN & FOX PLLC AVENUE, N.W. DC 20005 ART UNIT	

DATE MAILED: 01/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)	
	09/967,184	HEIKKILA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Traviss C McIntosh	1623	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a rent. a reply within the statutory minimum of thirty eriod will apply and will expire SIX (6) MONT that the cause the application to become ABA	ply be timely filed (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status	•		
1)⊠ Responsive to communication(s) filed on €	01 November 2004.		
·= · · · · · · · · · · · · · · · · · ·	his action is non-final.		
3) Since this application is in condition for all closed in accordance with the practice und		-	
Disposition of Claims			
4) ⊠ Claim(s) <u>1-4 and 6-49</u> is/are pending in the 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,2,6,8,10,12-16,18 and 27-33</u> is/ 7) ⊠ Claim(s) <u>3,4,7,9,11,17,19-26 and 34-49</u> is/ 8) □ Claim(s) are subject to restriction and	drawn from consideration. are rejected. are objected to.		
Application Papers	,		
9)☐ The specification is objected to by the Exar	miner.		
10) The drawing(s) filed on is/are: a)	accepted or b) ☐ objected to b	y the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co			
,	e Examiner. Note the attached	Office Action of form F 10-132.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for form a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in Ap priority documents have been r reau (PCT Rule 17.2(a)).	oplication No received in this National Stage	
Attachment(e)			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Intension S	ummary (PTO-413)	
 Notice of References Cited (PTO-692) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date 	Paper No(s)	//Mail Date //mail Patent Application (PTO-152)	

DETAILED ACTION

The Amendment filed September 2, 2004 has been received, entered into the record, and carefully considered. The following information provided in the amendment affects the instant application by:

Claims 1-4, and 6-49 have been amended.

Claim 5 has been canceled.

Remarks drawn to rejections of Office Action mailed June 2, 2004 include:

102(a) rejection: which has been overcome by applicant's amendments and arguments and has been withdrawn.

103(a) rejection: which has been overcome by applicant's amendments and arguments and has been withdrawn.

An action on the merits of claims 1-4 and 6-49 is contained herein below. The text of those sections of Title 35, US Code which are not included in this action can be found in a prior Office action.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on November 1, 2004 has been entered.

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Information Disclosure Statement

The Information Disclosure Statement which applicants stated they filed electronically on September 8, 2004 has not been received. The references will be considered upon receipt.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1, 2, 6, 8, 10, 12-16, 18, and 27-33 provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-7, 9-20, 23-24, 26, and 29 of copending Application No. 10/403,089. Although the conflicting claims are not identical, they are not patentably distinct from each other because both applications are drawn to separating monosaccharides from each other using a weak acid cation exchange resin.

It is noted that the '089 application is drawn to separating hydrophilic carbohydrates from more hydrophobic carbohydrates using a weak acid cation exchange resin. Rhamnose is known to be more hydrophobic than arabinose and xylose due to its methyl group, and thus it would be obvious to separate rhamnose, the more hydrophobic carbohydrate, from arabinose and xylose,

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hydrophilic carbohydrates, with the '089 application in front of them. Claims 24, 26, and 29 of the '089 application additionally limit the saccharides to optionally L-rhamnose, arabinose, and xylose. The additional claims of both applications are correlative in their limitations to the resin used, crosslinking agents used, size of the resin, eluant used, pH of the feed solution, and temperature of the eluant.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Allowable Subject Matter

Claims 3-4, 7, 9, 11, 17, 19-26, and 34-49 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art does not teach or fairly suggest the use of a weak acid cation exchange resin to separate rhamnose from a solution comprising rhamnose and at least one of arabinose and xylose.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Traviss C McIntosh whose telephone number is 571-272-0657. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James O. Wilson can be reached on 571-272-0661. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Traviss C. McIntosh III January 21, 2005

James O. Wilson

Supervisory Patent Examiner

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